

EXHIBIT D

Log in Sign Up

Menu

Reading

Mango Market Hacker
Loses Millions in Failed...

News • DeFi

Mango Market Hacker Loses Millions in Failed Aave Scheme

Avraham Eisenberg, the crypto trader behind last month's \$100 million Mango Markets price manipulation maneuver, couldn't do the same to Aave.

By [Sander Lutz](#)

Nov 23, 2022

3 min read



Images: Shutterstock



A notorious crypto trader, who gloated just last month about making away with over \$100 million in a [controversial price manipulation maneuver](#), appears to have lost millions on a similar exploit attempt that backfired early Tuesday.

Avraham Eisenberg, the trader behind October's [Mango Market hack](#), recently borrowed 40 million curve (CRV) tokens from decentralized lending platform Aave, according to [on-chain data](#). The drastic move is part of an apparent scheme to sell off the tokens, plummet CRV's value as a result, and make away with [millions in short positions](#) on the token—leaving Aave saddled with a massive quantity of bad debt.

Price data by CoinGecko



Search

About

App

Email

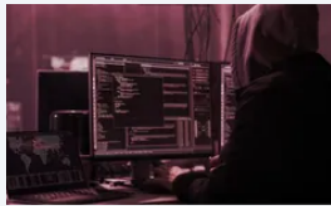
Discuss

Podcast



the tokens, plummet CRV's value as a result, and make away with millions in short positions on the token—leaving Aave saddled with a massive quantity of bad debt.

The ploy did not execute as planned, however. CRV's price declined early Tuesday from \$0.53 to \$0.41, but then quickly recovered, shooting up as high as \$0.71. At writing, CRV is up 31% in the last 24 hours to \$0.67, according to data from CoinGecko.



BitKeep Hacker Moves \$1M in Binance Coin Through Tornado Cash

An anonymous cybercriminal on Monday stole \$1 million in Binance Coin (BNB) tokens from multi-chain wallet BitKeep's token swap service, before routing the funds through the U.S....

News • Business

Tim Hakki • Oct 18, 2022

3 min read

Weeks ago, Eisenberg publicly outlined a plan to manipulate a loophole in Aave's lending policies that would theoretically allow a scheme like the one attempted by the trader on Tuesday to succeed.



Avraham Eisenberg
@avi_eisen · Follow



I've been advised aave is perfectly safe so here's the potential trading strategy. Not financial or legal advice, but if you do make 9 figures on this feel free to send a tip

Note that starting with more initial capital increases success odds and profit percentage

Ren mcap is about 125M currently so 125m in buying pressure at minimum doubles it and realistically probably 5x at least

2:09 AM

If you 4x, you can borrow an additional 150m on account B for a 50M profit, it's actually somewhat more because you'd be buying the Ren at a lower average price

2:10 AM

I'd actually guess that 125M in buying



Log in [Sign Up](#)

Menu

Reading

 Mango Market Hacker
Loses Millions in Failed...

150m on account B for a 50M profit, it's actually a much better outcome than buying the Ren at a lower average price

2:10 AM

I'd actually guess that 125M in buying pressure 10x'es it, and then you would be able to borrow over 500m against your

4:00 PM · Oct 19, 2022



1.5K Reply Copy link to Tweet

[Read 194 replies](#)

Yet, in the weeks following it, neither Aave nor Gauntlet—the financial modeling platform employed by Aave—moved to take any precautionary steps to prevent an exploit like the one Eisenberg outlined from occurring.

Want to be a crypto expert? Get the best of Decrypt straight to your inbox.

Your Email

[Get it!](#)

On Tuesday afternoon, after Eisenberg's short strategy proved unsuccessful, Gauntlet issued a statement to clarify that Aave had emerged from the incident relatively unscathed.

"The attempt to squeeze CRV on Aave has been unsuccessful and unprofitable," Gauntlet tweeted. "Despite this, Aave has accrued a much smaller insolvent position."



Gauntlet

@gauntletnetwork · [Follow](#)

The attempt to squeeze CRV on @AaveAave has been unsuccessful and unprofitable. Despite this Aave has



Search

About

App

Email

Discuss

Podcast



Log in [Sign Up](#)

Menu

Reading

 Mango Market Hacker
Loses Millions in Failed...



Gauntlet
@gauntletnetwork · Follow

The attempt to squeeze CRV on @AaveAave has been unsuccessful and unprofitable. Despite this Aave has accrued a much smaller insolvent position

Our immediate recommendation is to freeze a number of tail assets on v2 to mitigate the risks of similar, likely unprofitable, squeezes

9:57 PM · Nov 22, 2022



[Read the full conversation on Twitter](#)



120



Reply



Copy link to Tweet

[Read 11 replies](#)

That smaller insolvency amounts to \$1.6 million in bad debt on Aave's end, according to blockchain data analyzed by [Blockanalitica](#)—an amount that could have been far larger had Eisenberg's exploit succeeded.

In a [reply](#) to a since-deleted tweet, Gauntlet announced that it would help cover the \$1.6 million loss as part of its [insolvency refund program](#), which commits to covering losses incurred by clients such as Aave due to flaws in Gauntlet's "risk parameter optimizations."

Hours after Eisenberg's CRV maneuver failed, an Aave [governance proposal](#) was drafted to prevent a similar scheme from manipulating other cryptocurrencies on the platform in the future.

Some Aave DAO members reacted negatively to the proposal.

"Better late than never, no?" one member wrote. "Gauntlet should have done this proposal way before that Avi pulled the trigger. What were you doing all this time while Avi was bragging about his attempt to economically exploit AAVE?"



Search

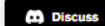
About



App



Email



Discuss



Podcast



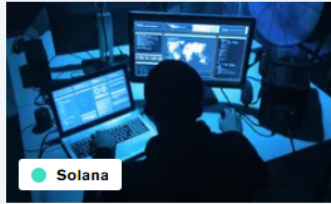
doing all this time while Avi was bragging about his attempt to economically exploit AAVE?”

Log in Sign Up

Menu

Reading

Mango Market Hacker
Loses Millions in Failed...



Solana DeFi Trading Platform Mango Markets Loses \$100M in Hack

In the second \$100 million DeFi hack this week, Mango Markets was drained of \$100 million in funds due to an exploit. Mango Markets tweeted Tuesday evening that a hacker was able to...

News • DeFi

2 min read

Jason Nelson • Oct 12, 2022

Last month, when Eisenberg made away with over \$100 million from Solana-based Mango Markets via an oracle price manipulation, Mango DAO agreed to forego any pursuit of criminal charges against the trader—if he returned \$67 million of the seized funds to help the organization cover its bad debt.

Eisenberg agreed to the deal; the next day, he outed himself as the trader behind the maneuver, calling the event, widely regarded as a hack, a “highly profitable trading strategy.”

He did not immediately respond to a request for comment on Tuesday's events from *Decrypt*.

Stay on top of crypto news, get daily updates in your inbox.

Your Email

you@emailaddress.com

Get it!



Copy link

IPFS

What's an accredited investor?

Disclosure



Copy link

IPFS

What's an [accredited investor](#)?

Disclosure

RoundlyX

Auto invest spare change into crypto.

Join other investors

Min investment

\$15

Target return

60%

Masterworks

Invest in multimillion dollar paintings from \$10k.

Join 500K investors

Min investment

\$10K

Target return

10-25%

Albert Oehlen

Invest in multi-million dollar paintings from \$10k

Join other investors

Sold after

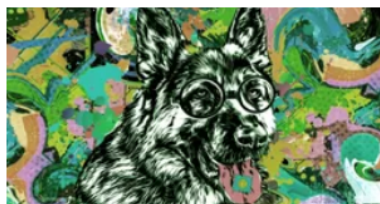
354 days

Returned

36.2%

View More >

Recommended News

**Index Coop Launches New Staked Ethereum Index for the LSD-Curious**

First time trying LSD? Index Coop has you covered. Today, Index Coop is launching its new structured product that will give investors exposure to the top liquid staking derivative (LSD) tokens...

News • DeFi

4 min read

Liam J. Kelly • Jan 24, 2023



Solana

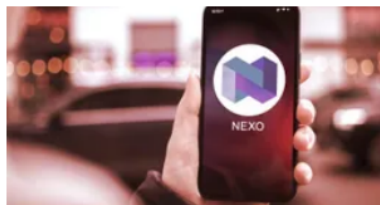
SEC Charges Mango Markets Attacker With Manipulating Price of 'Security'

The United States Securities and Exchange Commission (SEC) today charged Mango Markets attacker Avraham Eisenberg—who previously claimed responsibility for the scheme—with alleged fraud and ma...

News • DeFi

3 min read

Kate Irwin • Jan 20, 2023

**Nexo Settles with SEC, Will Pay \$45 Million and Kill Crypto Lending Product**

It has been a tough week for Nexo Capital. On Sunday, Bulgarian authorities said they have evidence of Nexo customers using the platform for illegal activities, including laundering money, "ta...

News • DeFi

3 min read

Jason Nelson • Jan 20, 2023



All News →

News • DeFi





Avraham Eisenberg

7,200 Tweets

and is an algorithmic, autonomous interest rate protocol

developers, to unlock a universe of open financial applications.

8

8

41



Avraham Eisenberg @avi_eisen · Oct 19, 2022

The proposal here is capping bounties at 5% or \$5M, whichever is smaller. This is notably less than many bounties paid under existing bounty programs.



13



8



130



5)

Second, we need something to reduce the impact of security breaches and hacks in crypto.

One way we could do that is with a community standard that required attackers to return the vast majority of assets and prioritize customer protection, in return for settling the dispute.

[Show this thread](#)



Avraham Eisenberg @avi_eisen · Oct 20, 2022

Wen Alabama refunds on every protocol they made over 5m PnL on

4

4

86



Avraham Eisenberg Retweeted



Avraham Eisenberg @avi_eisen · Oct 19, 2022

Replying to @banana83029121

that's me, completely clueless about DeFi, you got me

5

2

126



Avraham Eisenberg Retweeted



Route 2 FI @Route2FI · Oct 19, 2022

Replying to @avi_eisen

I recommend no more tweets like this for the sake of the people, the crypto industry, and your business. But if this continues I have no choice but to add you to notifications for news/narrative trades.

6

7

197



Avraham Eisenberg @avi_eisen · Oct 19, 2022

I've been advised aave is perfectly safe so here's the potential trading strategy. Not financial or legal advice, but if you do make 9 figures on this feel free to send a tip

Note that starting with more initial capital increases success odds and profit percentage

3. Account B, lend 85M Ren, borrow 50M USDC

Net cost here is 50M.

With another 50M, you can buy at least 125M worth of Ren (because you can borrow 60% LTV)

Ren mcap is about 125M currently so 125m in buying pressure at minimum doubles it and realistically probably 5x at least

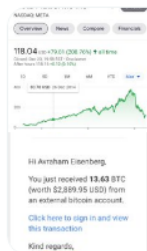
2:09 AM

If you 4x, you can borrow an additional 150m on account B for a 50M profit, it's actually somewhat more because you'd be buying the Ren at a lower average price

2:10 AM

Follow

Search Twitter



AvrahamEisenberg
They still think we're g...
AvrahamEisenberg
what's this idea that th...
cycle



You might like



db
@tier10k

Follow



GCR
@GiganticRebirth

Follow



Tree of Alpha
@Tree_of_Alpha

Follow

[Show more](#)

What's happening

Premier League · LIVE

Arsenal FC vs Newcastle United



Trending in United States

Praying for Hamlin

314K Tweets

Politics · Trending

Nominate Trump

4,650 Tweets

Trending in United States

Cancel

172K Tweets

Sports · Trending

#PrayersForDamar

Trending with NFL Live

[Show more](#)

[Terms of Service](#) [Privacy Policy](#) [Cookie Policy](#)
[Accessibility](#) [Ads info](#) [More ...](#)
© 2023 Twitter, Inc.

